

AMENDMENTS TO THE CLAIMS

1. (Currently Amended) A reciprocating compressor, comprising:
a reciprocating motor disposed in a casing, and configured to generate a driving force;
a compression unit configured to suck, compress, and discharge gas by the driving force
of the reciprocating motor;

a resonant spring unit configured to provide a reciprocating movement of the
reciprocating motor with a resonant movement; and

at least two spring supporting frames configured to support the resonant spring unit,
wherein one of the spring supporting frames is inserted into another of the spring
supporting frames, and

wherein the at least two spring supporting frames are coupled to each other by welding.

2. (Canceled).

3. (Previously Presented) The compressor of claim 1, wherein the at least two spring
supporting frames comprise:

a first frame configured to support a first spring of the resonant spring unit, which is
shrunk in a compression operation of a piston of the compression unit, together with a spring seat
panel connected with the piston; and

a second frame configured to support a second spring of the resonant spring unit, which is
shrunk in a suction operation of the piston, together with the spring seat panel.

4. (Original) The compressor of claim 3, wherein the first frame comprises:

a disc shaped first spring supporting portion on which the first spring is supported,
and

a first cylindrical portion extended from an outer circumference of the first spring
supporting portion toward the second frame; and

the second frame comprises:

a disc shaped second spring supporting portion on which the second spring is supported, and

a second cylindrical portion extended from an outer circumference of the second spring supporting portion toward the first frame, and inserted at an inner circumferential surface of the first cylindrical portion of the first frame.

5. (Original) The compressor of claim 4, wherein an end of the first cylindrical portion and an outer circumferential surface of the second cylindrical portion are engaged by welding.

6. (Previously Presented) The compressor of claim 3, wherein the first frame comprises:

a disc shaped first spring supporting portion by which the first spring is supported, and

a first cylindrical portion extended from an outer circumference of the first spring supporting portion toward the second frame; and

the second frame comprises:

a disc shaped second spring supporting portion by which the second spring is supported, and

a second cylindrical portion extended from an outer circumference of the second spring supporting portion toward the first frame, and

wherein the first cylindrical portion is inserted into an inside of the second cylindrical portion.

7. (Original) The compressor of claim 6, wherein an end of the second cylindrical portion and an outer circumferential surface of the first cylindrical portion are engaged by welding.

8. (New) A reciprocating compressor, comprising:
a reciprocating motor disposed in a casing, and configured to generate a driving force;
a compression unit configured to suck, compress, and discharge gas by the driving force of the reciprocating motor;
a resonant spring unit configured to provide a reciprocating movement of the reciprocating motor with a resonant movement; and
at least two spring supporting frames configured to support the resonant spring unit, wherein one of the spring supporting frames is inserted into another of the spring supporting frames, and
wherein the at least two spring supporting frames include:
a first frame configured to support a first spring of the resonant spring unit, which is shrunk in a compression operation of a piston of the compression unit, together with a spring seat panel connected with the piston; and
a second frame configured to support a second spring of the resonant spring unit, which is shrunk in a suction operation of the piston, together with the spring seat panel.